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Enter terms  
Search

[Reset](#) Sort By: Close Date (descending)

- [Relevancy \(descending\)](#)
- [Title \(ascending\)](#)
- [Open Date \(descending\)](#)
- [Close Date \(ascending\)](#)
- [Release Date \(descending\)](#)

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Displaying 271 - 275 of 275 results

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### [1. A11a-T030: Specific Epigenetic Molecules Involved in Wound Healing and Repair](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Using a wound/repair animal model that is relevant to humans, elaborate the mechanism by which the various molecules involved in wound healing and repair (e.g. Polycomb Gene Group Proteins and associated demethylases) induce the repair transcriptome (including cell-cycle regulators, matrix molecules, integrins, proteases and antioxidant enzymes). Use the finding to develop diagnostic te ...

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### [2. A11a-T031: Development of Diffusion Tensor Imaging \(DTI\) Phantoms to Enhance the Diagnosis of Moderate Traumatic Brain Injury \(TBI\)](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Traumatic Brain Injury (TBI) is one of the hallmark injuries of the current conflicts in Iraq and Afghanistan. The primary source of these injuries is exposure to blast from Improvised Explosive Devices (IEDs). TBIs have a wide spectrum of sequelae associated with them. While severe TBIs are rapidly identifiable (many are skull penetrating), mild and moderate TBIs are much more difficul ...

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### [3. A11a-T032: Advanced Autonomy and Operator Interfaces for Complex Robotic Systems](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The objective of this topic is to develop autonomous capability for robots with human-like dexterity to perform complex tasks for medical applications. DESCRIPTION: Current low-dimensional robots are directed by human operators using operator control units (OCUs) such as hand controllers that send a continuous stream of commands to the end-effector to follow a desired trajectory. Thi ...

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### [4. A11a-T033: Terrain-Dependent Driving Control for Medical Robots and Mobility Assist Devices](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop autonomous terrain classification and driving control systems that enable medical robots and mobility assist devices to safely negotiate various types of terrain. Applications would include casualty assessment/extraction robots, chem/bio-hazard detection robots, and electric-powered wheelchairs. DESCRIPTION: The military is currently developing several robotic platforms for c ...

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### 5. [A11a-T034: Cell Culture Approaches to Generating Brown Adipose Tissue for Autologous Transplantation](#)

Release Date: 01-27-2011 Open Date: 02-28-2011 Due Date: 03-30-2011 Close Date: 03-30-2011

OBJECTIVE: The objective of this topic is to develop an in vitro culture approach to generating the approximately 50 grams of brown adipose tissue or brown fat from autologous cells that could be used for re-implantation and prevention or treatment of obesity. Brown fat appears to arise from a progenitor cell that preferentially differentiates into white fat. Under certain conditions these progeni ...

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- [First](#)
- [Previous](#)
- ...
- [20](#)
- [21](#)
- [22](#)
- [23](#)
- [24](#)
- [25](#)
- [26](#)
- [27](#)
- [28](#)

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